

What is claimed is:

1. An object model for manipulating multidimensional data comprising:  
a dataspace comprising at least one dataserer;  
at least one cube object stored on each of said at least one dataserer, each of  
said at least one cube object comprising at least one saved view of data; and  
5 at least one dimension object stored on each of said at least one dataserer,  
each of said at least one dimension object comprising at least one saved subset of  
elements.
2. The object model of Claim 1 wherein said at least one dataserer comprises a  
plurality of dataservers.
3. The object model of Claim 1 wherein said at least one dataserer comprises at  
least one dataserer for a database having multidimensional financial data stored  
thereon.
4. The object model of Claim 1 wherein said at least one dataserer wherein said  
at least one dataserer comprises at least one dataserer for an OLAP database.
5. The object model of Claim 1 wherein each of said at least one dimension object  
further comprises at least one saved element.



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a multidimensional database accessible by said computer, said

object model software executing on said system computer for instantiating and inflating specified objects up-front a first time said database is accessed, and for instantiating and inflating objects which are not specified objects on demand as the specified objects are accessed.

13. The system of Claim 11 further comprising software executing on said computer for receiving from the user state information.

15. The system of Claim 11 wherein the specified objects comprise specific properties of objects.

16. The system of Claim 11 wherein said multidimensional database comprises a database having multidimensional financial data stored thereon.

17. The system of Claim 11 wherein said multidimensional database comprises an OLAP database.
18. The system of Claim 11 wherein said object model software employs an object model comprising:
- a dataspace comprising at least one dataserwer;
  - at least one cube object stored on each of said at least one dataserwer, each of
  - 5 said at least one cube object comprising at least one saved view of data; and
  - at least one dimension object stored on each of said at least one dataserwer, each of said at least one dimension object comprising at least one saved subset of elements.
19. The system of Claim 18 wherein the specified objects are identified via said dataspace.
20. The system of Claim 19 further comprising software executing on said computer for receiving from the user an indication of specified objects.
21. The system of Claim 20 wherein the indication of specified objects comprises a structured string variable.
22. The system of Claim 21 wherein the structured string variable comprises raw text separated by delimiters.

23. The system of Claim 21 wherein the structured string variable comprises strings in an extensible markup language (XML) format.

24. A system for displaying data from a multidimensional OLAP database to a user, said system comprising:

a system computer;

a multidimensional database accessible by said computer, said

5 multidimensional database having objects stored thereon;

object model software executing on said system computer for instantiating and inflating specified objects up-front a first time said database is accessed, and for instantiating and inflating objects which are not specified objects on demand as the nonspecified objects are accessed; and

10 software executing on said computer for receiving from the user an indication of specified objects and state information.

25. The system of Claim 24 wherein the specified objects comprise collections of objects.

26. The system of Claim 24 wherein the specified objects comprise specific properties of objects.

27. A system for displaying data from a multidimensional database to a user, said system comprising:

a system computer;

a multidimensional database accessible by said computer, said

5 multidimensional database having objects stored thereon; and

object model software executing on said system computer for instantiating and inflating specified objects up-front a first time said database is accessed, and for instantiating and inflating objects which are not specified objects on demand as the nonspecified objects are accessed, said object model software employs an object

10 model comprising:

a dataspace comprising at least one dataserer;

at least one cube object stored on each of said at least one dataserer, each of said at least one cube object comprising at least one saved view of data; and

15 at least one dimension object stored on each of said at least one dataserer, each of said at least one dimension object comprising at least one saved subset of elements.

28. The system of Claim 27 wherein said multidimensional database comprises a database having multidimensional financial data stored thereon.

29. The system of Claim 27 wherein said multidimensional database comprises an OLAP database.

30. The system of Claim 27 wherein said at least one dataserer comprises a plurality of dataservers.

31. The system of Claim 27 wherein each of said at least one dimension object further comprises at least one saved element.
32. The system of Claim 27 wherein each of said at least one dimension object further comprises at least one saved hierarchy.
33. The system of Claim 27 wherein the at least one saved view of data comprises at least one saved value of data.
34. The system of Claim 27 wherein the at least one saved view of data comprises at least one saved subset of data.
35. The system of Claim 27 wherein said dataspace comprises an entry point into said object model.
36. The system of Claim 27 further comprising software executing on said computer for receiving from the user state information.
37. The system of Claim 27 wherein the specified objects comprise collections of objects.
38. The system of Claim 27 wherein the specified objects comprise specific properties of objects.

40. The system of Claim 39 further comprising software executing on said computer for receiving from the user an indication of specified objects.

42. The system of Claim 41 wherein the structured string variable comprises raw text separated by delimiters.

43. The system of Claim 41 wherein the structured string variable comprises strings in an extensible markup language (XML) format.